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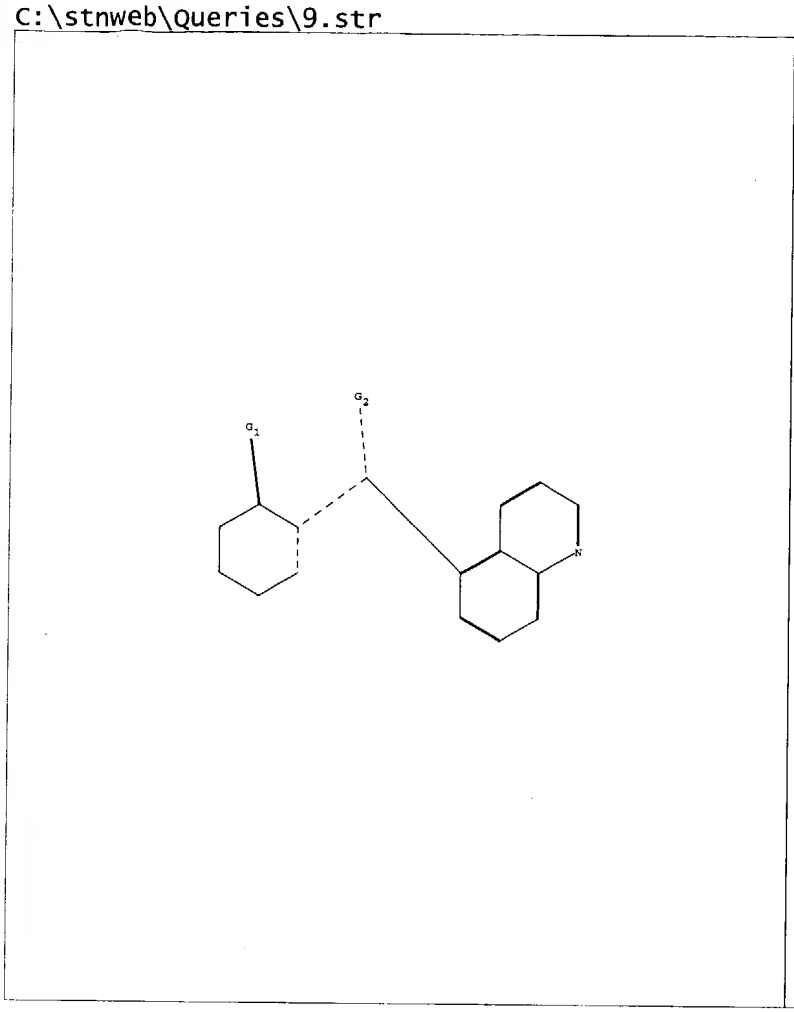

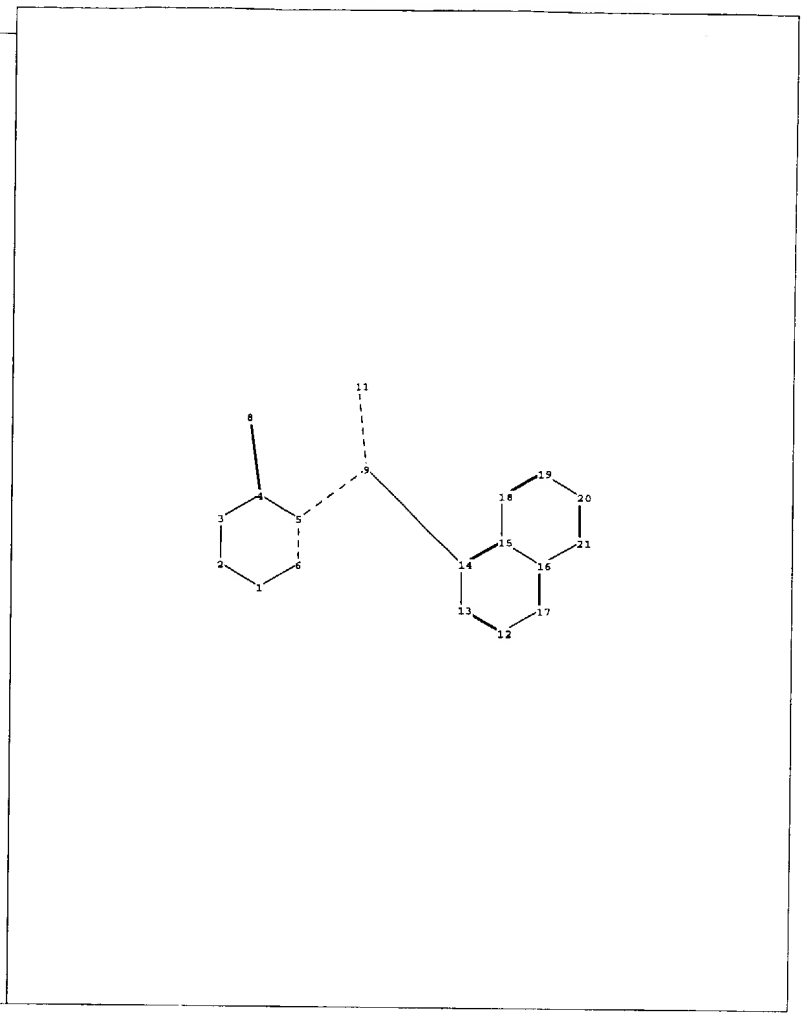

chain nodes :
8 9 11
ring nodes :
1 2 3 4 5 6 12 13 14 15 16 17 18 19 20 21
chain bonds :
4-8 5-9 9-11 9-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 15-18 16-17 16-21 18-19
19-20 20-21
exact/norm bonds :
4-8 5-6 5-9 9-11
exact bonds :
1-2 1-6 2-3 3-4 4-5 9-14
normalized bonds :
12-13 12-17 13-14 14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21
isolated ring systems :
containing 1 :

G1:O,S

G2:O,S,N,X

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

```
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NEWS  1              Web Page URLs for STN Seminar Schedule - N. America
NEWS  2              "Ask CAS" for self-help around the clock
NEWS  3  SEP 09      CA/CAplus records now contain indexing from 1907 to the
                     present
NEWS  4  DEC 08      INPADOC: Legal Status data reloaded
NEWS  5  SEP 29      DISSABS now available on STN
NEWS  6  OCT 10      PCTFULL: Two new display fields added
NEWS  7  OCT 21      BIOSIS file reloaded and enhanced
NEWS  8  OCT 28      BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS  9  NOV 24      MSDS-CCOHS file reloaded
NEWS 10  DEC 08      CABA reloaded with left truncation
NEWS 11  DEC 08      IMS file names changed
NEWS 12  DEC 09      Experimental property data collected by CAS now available
                     in REGISTRY
NEWS 13  DEC 09      STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14  DEC 17      DGENE: Two new display fields added
NEWS 15  DEC 18      BIOTECHNO no longer updated
NEWS 16  DEC 19      CROPU no longer updated; subscriber discount no longer
                     available
NEWS 17  DEC 22      Additional INPI reactions and pre-1907 documents added to CAS
                     databases
NEWS 18  DEC 22      IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19  DEC 22      ABI-INFORM now available on STN
NEWS 20  JAN 27      Source of Registration (SR) information in REGISTRY updated
                     and searchable
NEWS 21  JAN 27      A new search aid, the Company Name Thesaurus, available in
                     CA/CAplus
NEWS 22  FEB 05      German (DE) application and patent publication number format
                     changes
NEWS 23  MAR 03      MEDLINE and LMEDLINE reloaded
NEWS 24  MAR 03      MEDLINE file segment of TOXCENTER reloaded
NEWS 25  MAR 03      FRANCEPAT now available on STN
NEWS 26  MAR 29      Pharmaceutical Substances (PS) now available on STN
NEWS 27  MAR 29      WPIFV now available on STN
NEWS 28  MAR 29      No connect hour charges in WPIFV until May 1, 2004
NEWS 29  MAR 29      New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 20:21:22 ON 07 APR 2004
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=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY     SESSION
FULL ESTIMATED COST                                        0.21        0.21

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STRUCTURE FILE UPDATES:     6 APR 2004  HIGHEST RN 672263-62-6
DICTIONARY FILE UPDATES:    6 APR 2004  HIGHEST RN 672263-62-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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 0 20 S 21
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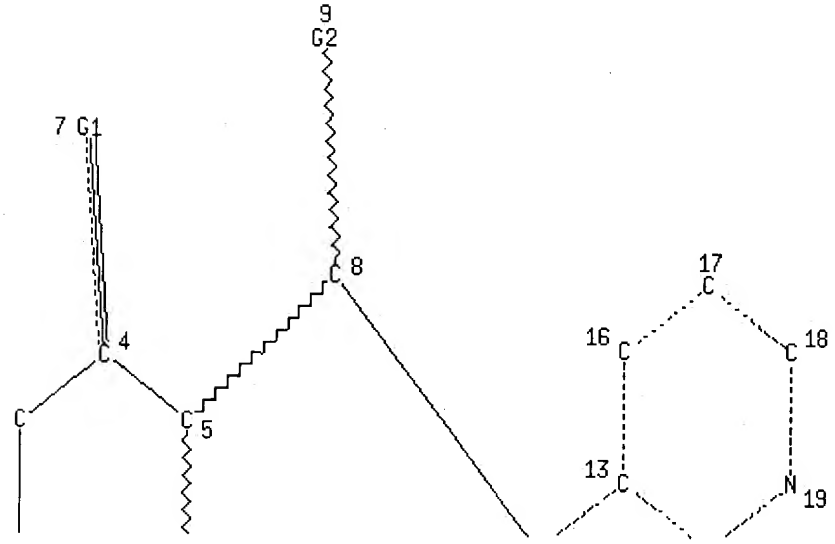
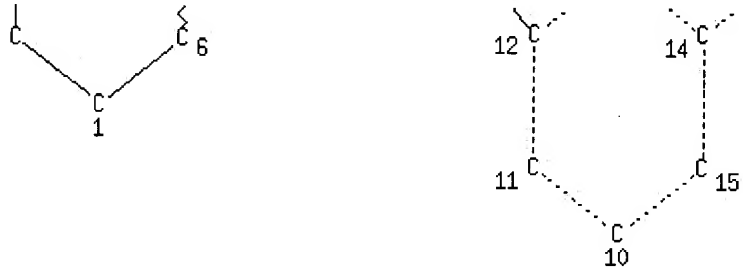


Page 1-B

2

Page 2-A



Page 2-B

VAR G1=20/21

VAR G2=22/23/24/25

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NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS C	AT	7
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NSPEC	IS R	AT	15
NSPEC	IS R	AT	16
NSPEC	IS R	AT	17
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NSPEC	IS R	AT	19

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 8 20 21 22 23 24 25

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 5

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NUMBER OF NODES IS  25

STEREO ATTRIBUTES: NONE


=> s l1
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SAMPLE SCREEN SEARCH COMPLETED -     75 TO ITERATE

100.0% PROCESSED      75 ITERATIONS                                  5 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          981 TO     2019
PROJECTED ANSWERS:               5 TO      234

L2             5 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 20:23:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1482 TO ITERATE

100.0% PROCESSED    1482 ITERATIONS                               106 ANSWERS
SEARCH TIME: 00.00.01

L3           106 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             156.68     156.89

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FILE COVERS 1907 - 7 Apr 2004  VOL 140 ISS 15
FILE LAST UPDATED: 6 Apr 2004  (20040406/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d his
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      (FILE 'HOME' ENTERED AT 20:21:22 ON 07 APR 2004)

      FILE 'REGISTRY' ENTERED AT 20:21:28 ON 07 APR 2004
L1              STRUCTURE UPLOADED
L2            5 S L1
L3          106 S L1 FULL

      FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004

=> s l3
L4            2 L3

=> d l4, ibib abs fhitstr, 1-2

L4   ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

ACCESSION NUMBER: 2000:175796 HCAPLUS
DOCUMENT NUMBER: 132:207770
TITLE: Preparation of oxocyclohexenoylquinolines as herbicides.
INVENTOR(S): Witschel, Matthias; Misslitz, Ulf; Baumann, Ernst; Von Deyn, Wolfgang; Langemann, Klaus; Mayer, Guido; Neidlein, Ulf; Gotz, Roland; Gotz, Norbert; Rack, Michael; Engel, Stefan; Otten, Martina; Westphalen, Karl-Otto; Walter, Helmut
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000014069	A1	20000316	WO 1999-EP6322	19990827
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2343144	AA	20000316	CA 1999-2343144	19990827
AU 9957425	A1	20000327	AU 1999-57425	19990827
EP 1112256	A1	20010704	EP 1999-944541	19990827
EP 1112256	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002524448	T2	20020806	JP 2000-568828	19990827

PRIORITY APPLN. INFO.: DE 1998-19840799 A 19980908
WO 1999-EP6322 W 19990827

OTHER SOURCE(S): MARPAT 132:207770
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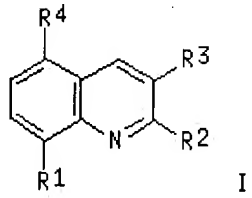


I

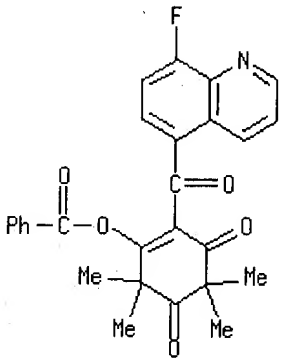
AB Title compds. [I; R1 = H, NO2, halo, cyano, alkyl, haloalkyl, alkoxyiminomethyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, (substituted) aminosulfonyl, sulfonylamino, PhO, heterocyclyloxy, PhS, heterocyclylthio; R2, R3 = H, alkyl, haloalkyl, halo; R4 = substituted (3-oxo-1-cyclohexen-2-yl)carbonyl, (1,3-dioxo-2-cyclohexyl)methylidene], were prepd. Thus, 2-(8-chloroquinolin-5-yl)carbonyl-4,4,6,6-tetramethylcyclohexan-1,3,5-trione in CH2Cl2 was treated with (COCl)2 and DMF followed by 1.5 h stirring to give 2-[(8-chloroquinolin-5-yl)carbonyl]-1-chloro-4,4,6,6-tetramethylcyclohex-1-en-1,3,5-trione and 2-(8-chloroquinolin-5-yl)chloromethylidene-4,4,6,6-tetramethylcyclohexan-1,3,5-trione. Several I at 0.125-0.25 kg/ha postemergent showed very good activity against Setaria faberi, Setaria viridis, and Solanum nigrum.

IT **260795-09-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of oxocyclohexenoylquinolines as herbicides)

RN 260795-09-3 HCAPLUS

CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



can't use
Put Double Check

Is it OPP
Check to make sure not
no for this
appl.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:197489 HCAPLUS
DOCUMENT NUMBER: 128:243961
TITLE: Preparation of heteroaroylcyclohexanediones as herbicides
INVENTOR(S): Otten, Martina; Gotz, Norbert; Von Deyn, Wolfgang; Engel, Stefan; Kardorff, Uwe; Plath, Peter; Hill, Regina Luise; Witschel, Matthias; Misslitz, Ulf; Westphalen, Karl-Otto; Walter, Helmut
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany; et al.
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9812180	A1	19980326	WO 1997-EP4894	19970909
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19638486	A1	19980326	DE 1996-19638486	19960920
AU 9743833	A1	19980414	AU 1997-43833	19970909
AU 736395	B2	20010726		
EP 931070	A1	19990728	EP 1997-941998	19970909
EP 931070	B1	20030319		
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BR 9711407	A	19990817	BR 1997-11407	19970909
CN 1230951	A	19991006	CN 1997-198078	19970909
NZ 334547	A	20000929	NZ 1997-334547	19970909
JP 2001501924	T2	20010213	JP 1998-514242	19970909
AT 234817	E	20030415	AT 1997-941998	19970909
ZA 9708452	A	19990319	ZA 1997-8452	19970919
US 6479436	B1	20021112	US 1999-254973	19990317

PRIORITY APPLN. INFO.: DE 1996-19638486 A 19960920
WO 1997-EP4894 W 19970909

OTHER SOURCE(S): MARPAT 128:243961
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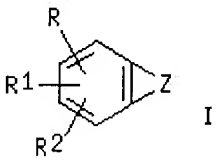

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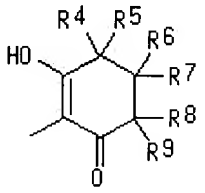
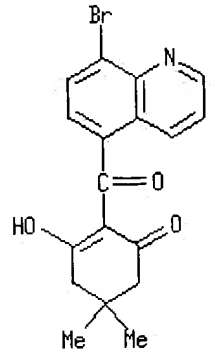


II

AB Title compds. [I; R = COR3; R1,R2 = H, halo, alkyl, alkoxy, etc.; R3 = dioxocyclohexyl group II; R4,R5,R7,R9 = H or alkyl; R6 = H, (un)substituted (cyclo)alkyl, heterocyclyl, etc.; R8 = H, alkyl, alkoxycarbonyl; R6R9 = bond or alkylene; R6R7 = O; Z = substituted (N-oxido) CH:CHCH:N, -CH:CHN:CH, substituted CH:CHCH2NH, -CH:CHNHCH2, etc.] were prepd. as herbicides (no data). Thus, 1,3-cyclohexanedione was O-acylated by 8-bromo-5-quinolinecarboxylic acid (prepn. given) and the product rearranged to give 2-(8-bromo-5-quinolyl)carbonyl-1,3-cyclohexanedione.

IT **205045-89-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of heteroaroylcyclohexanediones as herbicides)

RN 205045-89-2 HCAPLUS
CN 2-Cyclohexen-1-one, 2-[(8-bromo-5-quinolinyl)carbonyl]-3-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)



102 because OH is OK in app? See if protecting group.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.87	168.76
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.39	-1.39

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> **d his**

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FILE 'REGISTRY' ENTERED AT 20:21:28 ON 07 APR 2004
L1 STRUCTURE UPLOADED
L2 5 S L1
L3 106 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004
L4 2 S L3

FILE 'CAOLD' ENTERED AT 20:24:36 ON 07 APR 2004

=> **s l3**

```
L5              0 L3

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    0.42      169.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00       -1.39

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FILE COVERS 1907 - 7 Apr 2004  VOL 140 ISS 15
FILE LAST UPDATED: 6 Apr 2004  (20040406/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


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       3131421 PREP/RL
L6             2 L3/PREP
                  (L3 (L) PREP/RL)

=> d l6, ibib abs hitstr, 1-2

L6   ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

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ACCESSION NUMBER:          2000:175796  HCAPLUS
DOCUMENT NUMBER:           132:207770
TITLE:                     Preparation of oxocyclohexenoylquinolines as
                           herbicides.
INVENTOR(S):               Witschel, Matthias; Misslitz, Ulf; Baumann, Ernst; Von
                           Deyn, Wolfgang; Langemann, Klaus; Mayer, Guido;
                           Neidlein, Ulf; Gotz, Roland; Gotz, Norbert; Rack,
                           Michael; Engel, Stefan; Otten, Martina; Westphalen,
                           Karl-Otto; Walter, Helmut
PATENT ASSIGNEE(S):        Basf Aktiengesellschaft, Germany
SOURCE:                    PCT Int. Appl., 100 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:             Patent
LANGUAGE:                  German
FAMILY ACC. NUM. COUNT:    1
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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000014069	A1	20000316	WO 1999-EP6322	19990827
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2343144	AA	20000316	CA 1999-2343144	19990827
AU 9957425	A1	20000327	AU 1999-57425	19990827
EP 1112256	A1	20010704	EP 1999-944541	19990827
EP 1112256	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002524448	T2	20020806	JP 2000-568828	19990827

PRIORITY APPLN. INFO.: DE 1998-19840799 A 19980908
WO 1999-EP6322 W 19990827

OTHER SOURCE(S): MARPAT 132:207770

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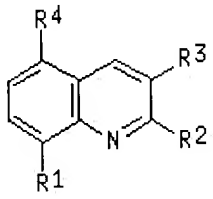


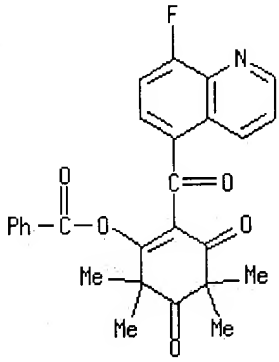
I

AB Title compds. [I; R1 = H, NO2, halo, cyano, alkyl, haloalkyl, alkoxyiminomethyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, (substituted) aminosulfonyl, sulfonylamino, PhO, heterocyclyloxy, PhS, heterocyclylthio; R2, R3 = H, alkyl, haloalkyl, halo; R4 = substituted (3-oxo-1-cyclohexen-2-yl)carbonyl, (1,3-dioxo-2-cyclohexyl)methylidene], were prepd. Thus, 2-(8-chloroquinolin-5-yl)carbonyl-4,4,6,6-tetramethylcyclohexan-1,3,5-trione in CH2Cl2 was treated with (COCl)2 and DMF followed by 1.5 h stirring to give 2-[(8-chloroquinolin-5-yl)carbonyl]-1-chloro-4,4,6,6-tetramethylcyclohex-1-en-1,3,5-trione and 2-(8-chloroquinolin-5-yl)chloromethylidene-4,4,6,6-tetramethylcyclohexan-1,3,5-trione. Several I at 0.125-0.25 kg/ha postemergent showed very good activity against Setaria faberi, Setaria viridis, and Solanum nigrum.

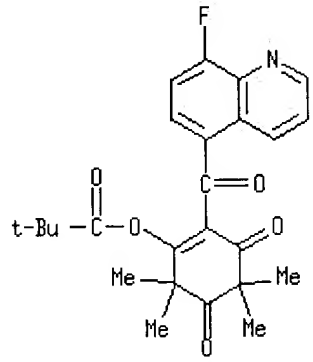
IT 260795-09-3P 260795-11-7P 260795-13-9P
260795-14-0P 260795-16-2P 260795-18-4P
260795-20-8P 260795-22-0P 260795-24-2P
260795-26-4P 260795-28-6P 260795-30-0P
260795-31-1P 260795-32-2P 260795-34-4P
260795-36-6P 260795-38-8P 260795-40-2P
260795-42-4P 260795-44-6P 260795-45-7P
260795-46-8P 260795-48-0P 260795-50-4P
260795-52-6P 260795-53-7P 260795-55-9P
260795-57-1P 260795-59-3P 260795-60-6P
260795-61-7P 260795-62-8P 260795-64-0P
260795-66-2P 260795-68-4P 260795-70-8P
260795-73-1P 260795-75-3P 260795-76-4P
260795-78-6P 260795-80-0P 260795-82-2P

260795-84-4P 260795-88-8P 260795-89-9P
260795-91-3P 260795-93-5P 260795-95-7P
260795-97-9P 260795-99-1P 260796-01-8P
260796-03-0P 260796-05-2P 260796-07-4P
260796-09-6P 260796-11-0P 260796-13-2P
260796-15-4P 260796-21-2P 260796-25-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of oxocyclohexenoylquinolines as herbicides)

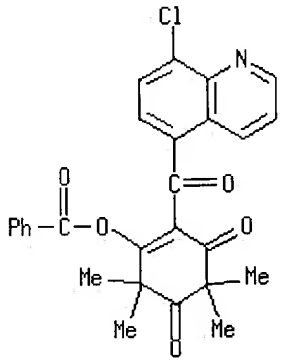
RN 260795-09-3 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



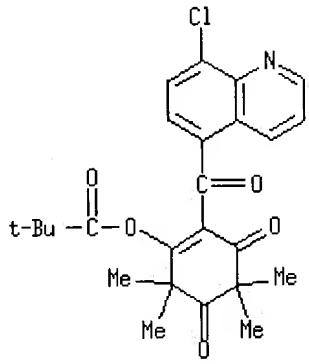
RN 260795-11-7 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



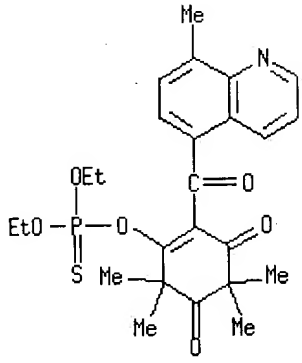
RN 260795-13-9 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



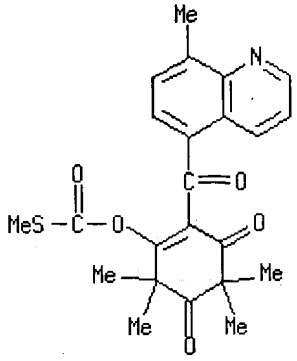
RN 260795-14-0 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-[(8-chloro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



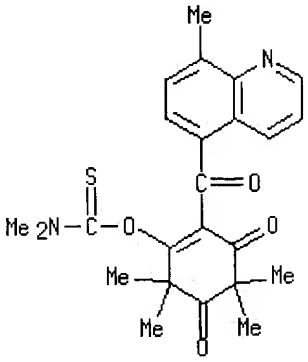
RN 260795-16-2 HCAPLUS
CN Phosphorothioic acid, O,O-diethyl O-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



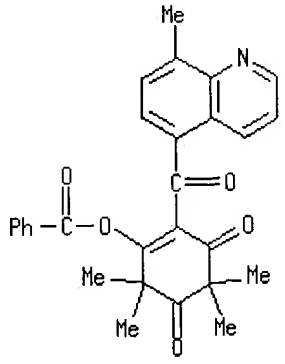
RN 260795-18-4 HCAPLUS
CN Carbonothioic acid, S-methyl O-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



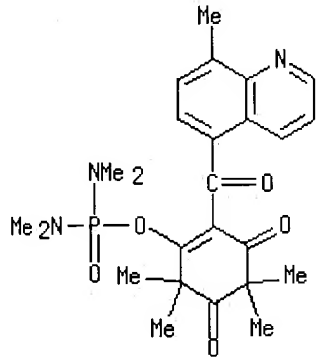
RN 260795-20-8 HCAPLUS
CN Carbamothioic acid, dimethyl-, O-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



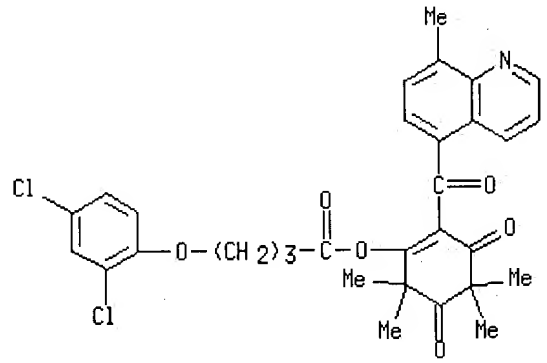
RN 260795-22-0 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



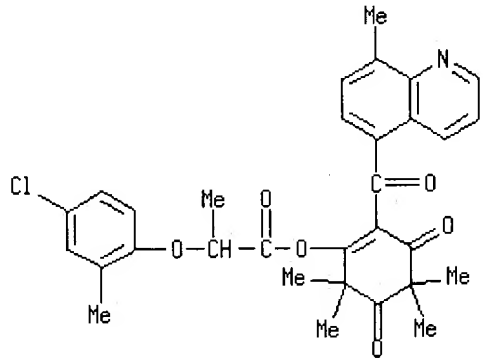
RN 260795-24-2 HCAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



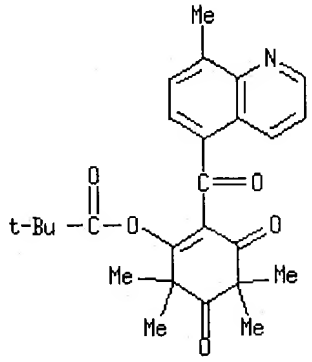
RN 260795-26-4 HCAPLUS
CN Butanoic acid, 4-(2,4-dichlorophenoxy)-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



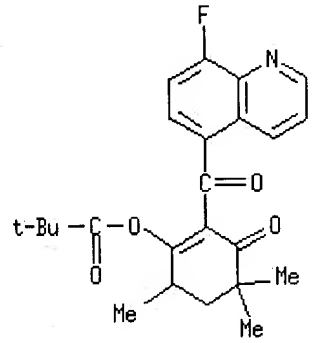
RN 260795-28-6 HCAPLUS
CN Propanoic acid, 2-(4-chloro-2-methylphenoxy)-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



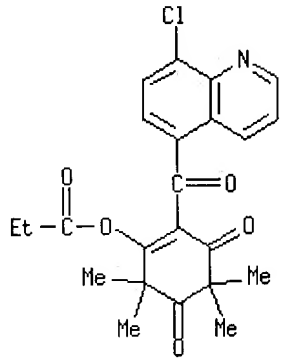
RN 260795-30-0 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



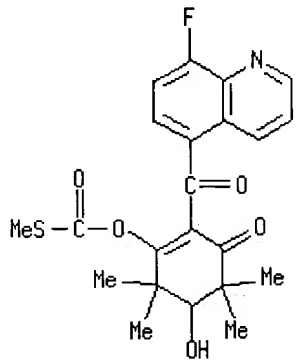
RN 260795-31-1 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6-trimethyl-3-oxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



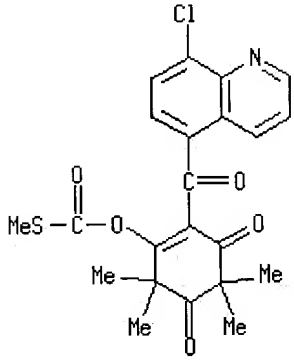
RN 260795-32-2 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(1-oxopropoxy)- (9CI) (CA INDEX NAME)



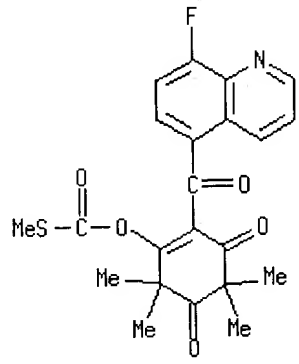
RN 260795-34-4 HCAPLUS
CN Carbonothioic acid, O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-5-hydroxy-4,4,6,6-tetramethyl-3-oxo-1-cyclohexen-1-yl] S-methyl ester (9CI) (CA INDEX NAME)



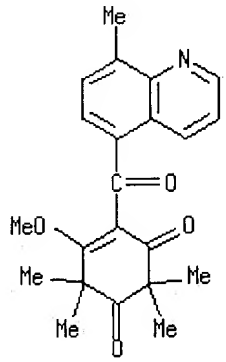
RN 260795-36-6 HCAPLUS
CN Carbonothioic acid, O-[2-[(8-chloro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] S-methyl ester (9CI) (CA INDEX NAME)



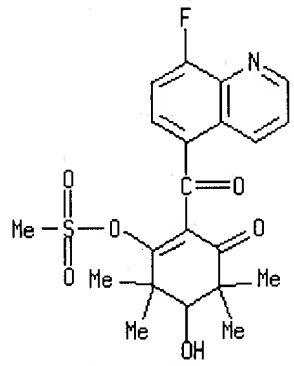
RN 260795-38-8 HCAPLUS
CN Carbonothioic acid, O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] S-methyl ester (9CI) (CA INDEX NAME)



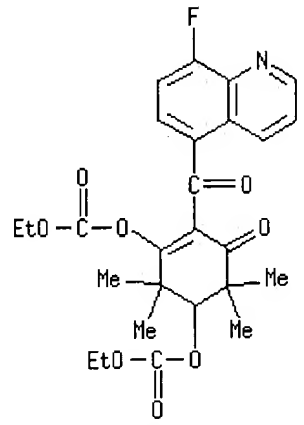
RN 260795-40-2 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-methoxy-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



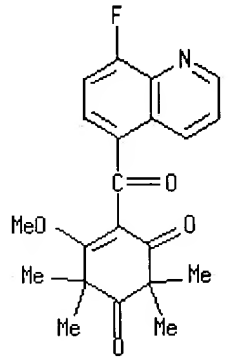
RN 260795-42-4 HCAPLUS
CN 2-Cyclohexen-1-one, 2-[(8-fluoro-5-quinolinyl)carbonyl]-5-hydroxy-4,4,6,6-tetramethyl-3-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



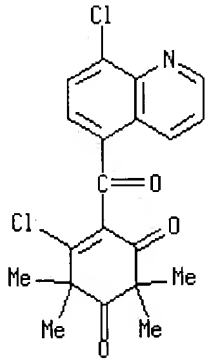
RN 260795-44-6 HCAPLUS
CN Carbonic acid, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-oxo-3-cyclohexene-1,3-diyl diethyl ester (9CI) (CA INDEX NAME)



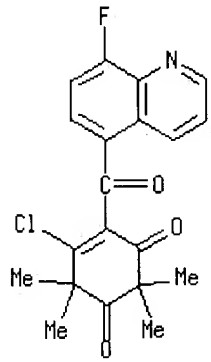
RN 260795-45-7 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-5-methoxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



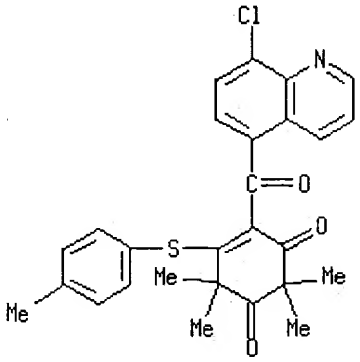
RN 260795-46-8 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



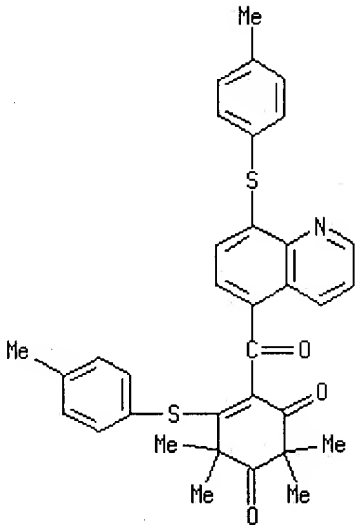
RN 260795-48-0 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



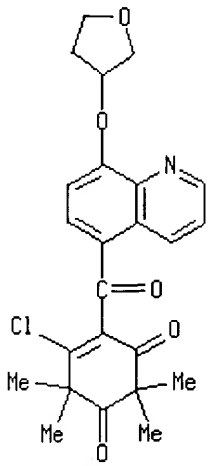
RN 260795-50-4 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-[(4-methylphenyl)thio]- (9CI) (CA INDEX NAME)



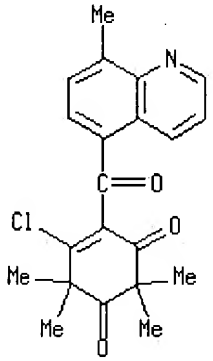
RN 260795-52-6 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-5-[(4-methylphenyl)thio]-4-[[8-[(4-methylphenyl)thio]-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



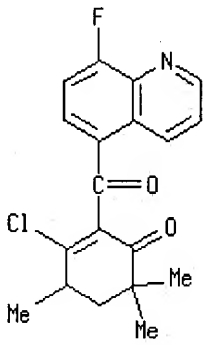
RN 260795-53-7 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-chloro-2,2,6,6-tetramethyl-4-[[8-[(tetrahydro-3-furanyl)oxy]-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



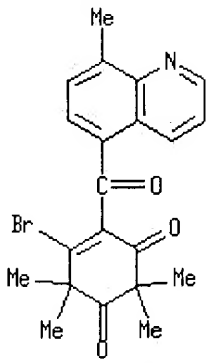
RN 260795-55-9 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-chloro-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



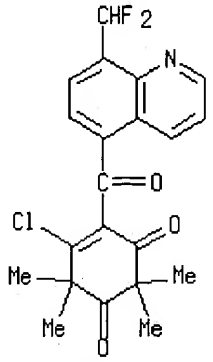
RN 260795-57-1 HCAPLUS
CN 2-Cyclohexen-1-one, 3-chloro-2-[(8-fluoro-5-quinolinyl)carbonyl]-4,6,6-trimethyl- (9CI) (CA INDEX NAME)



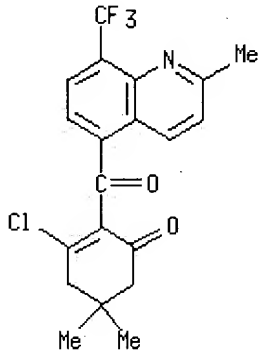
RN 260795-59-3 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-bromo-2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



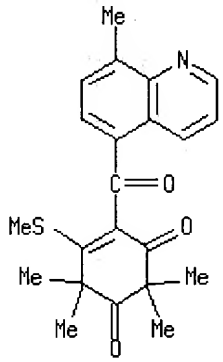
RN 260795-60-6 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[[8-(difluoromethyl)-5-quinolinyl]carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



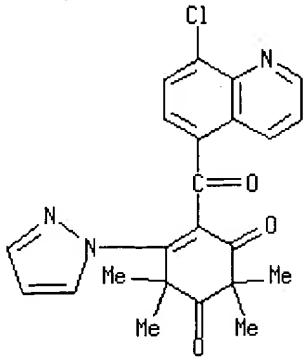
RN 260795-61-7 HCAPLUS
CN 2-Cyclohexen-1-one, 3-chloro-5,5-dimethyl-2-[[2-methyl-8-(trifluoromethyl)-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



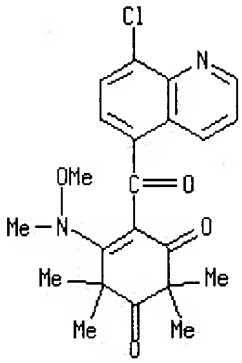
RN 260795-62-8 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]-5-(methylthio)- (9CI) (CA INDEX NAME)



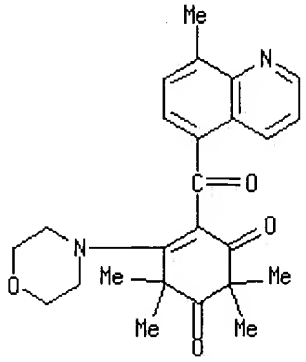
RN 260795-64-0 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(1H-pyrazol-1-yl)- (9CI) (CA INDEX NAME)



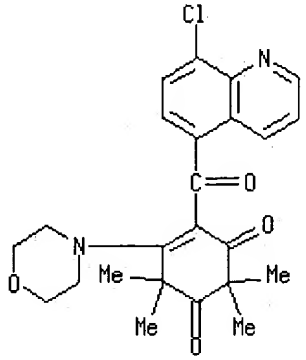
RN 260795-66-2 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-5-(methoxymethylamino)-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



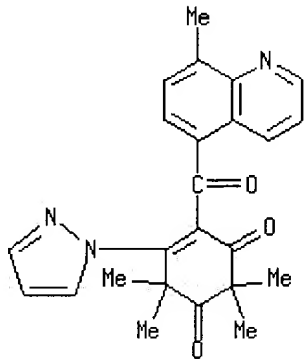
RN 260795-68-4 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]-5-(4-morpholinyl)- (9CI) (CA INDEX NAME)



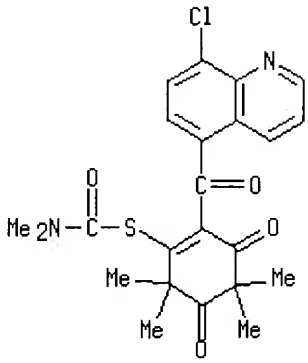
RN 260795-70-8 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(4-morpholinyl)- (9CI) (CA INDEX NAME)



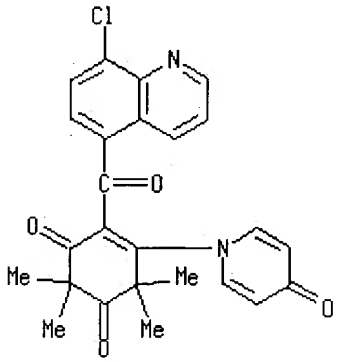
RN 260795-73-1 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 2,2,6,6-tetramethyl-4-[(8-methyl-5-quinolinyl)carbonyl]-5-(1H-pyrazol-1-yl)- (9CI) (CA INDEX NAME)



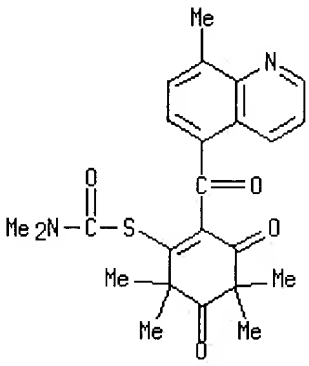
RN 260795-75-3 HCAPLUS
CN Carbamothioic acid, dimethyl-, S-[2-[(8-chloro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



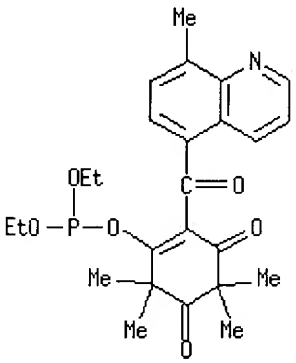
RN 260795-76-4 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(4-oxo-1(4H)-pyridinyl)- (9CI) (CA INDEX NAME)



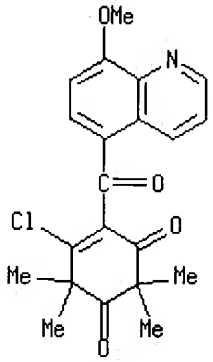
RN 260795-78-6 HCAPLUS
CN Carbamothioic acid, dimethyl-, S-[4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



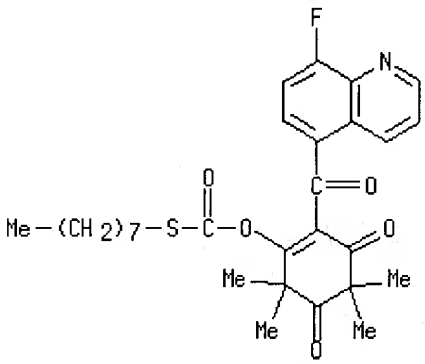
RN 260795-80-0 HCAPLUS
CN Phosphorous acid, diethyl 4,4,6,6-tetramethyl-2-[(8-methyl-5-quinolinyl)carbonyl]-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



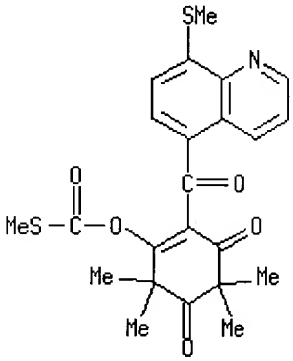
RN 260795-82-2 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-chloro-4-[(8-methoxy-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



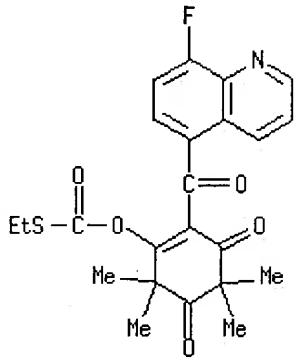
RN 260795-84-4 HCAPLUS
CN Carbonothioic acid, O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] S-octyl ester (9CI) (CA INDEX NAME)



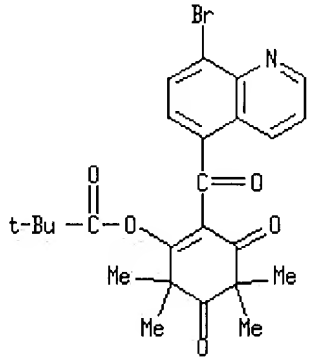
RN 260795-88-8 HCAPLUS
CN Carbonothioic acid, S-methyl O-[4,4,6,6-tetramethyl-2-[[8-(methylthio)-5-quinolinyl]carbonyl]-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



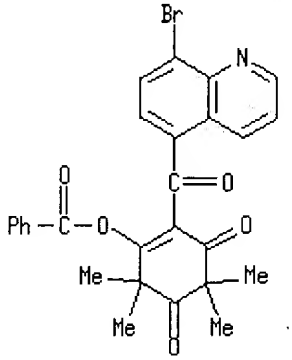
RN 260795-89-9 HCAPLUS
CN Carbonothioic acid, S-ethyl O-[2-[(8-fluoro-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl] ester (9CI) (CA INDEX NAME)



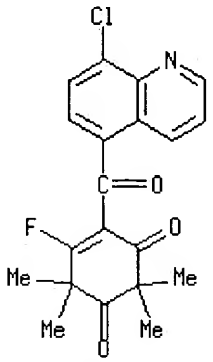
RN 260795-91-3 HCAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-[(8-bromo-5-quinolinyl)carbonyl]-4,4,6,6-tetramethyl-3,5-dioxo-1-cyclohexen-1-yl ester (9CI) (CA INDEX NAME)



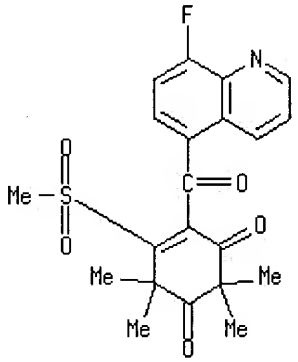
RN 260795-93-5 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-(benzoyloxy)-4-[(8-bromo-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



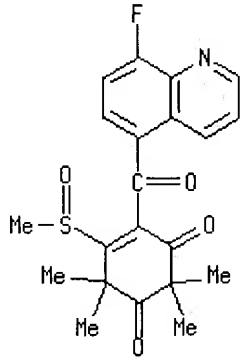
RN 260795-95-7 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-chloro-5-quinolinyl)carbonyl]-5-fluoro-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



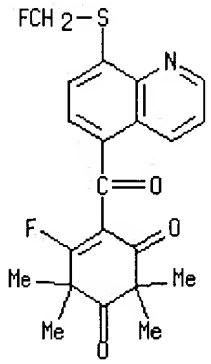
RN 260795-97-9 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(methylsulfonyl)- (9CI) (CA INDEX NAME)



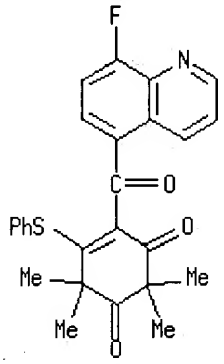
RN 260795-99-1 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(methylsulfinyl)- (9CI) (CA INDEX NAME)



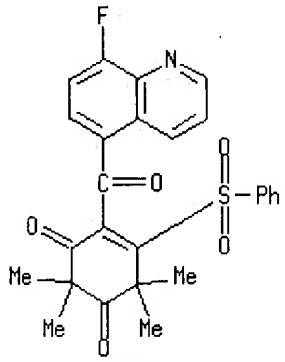
RN 260796-01-8 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-fluoro-4-[[8-[(fluoromethyl)thio]-5-quinolinyl]carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



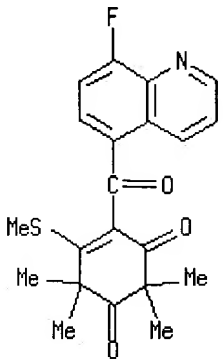
RN 260796-03-0 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(phenylthio)- (9CI) (CA INDEX NAME)



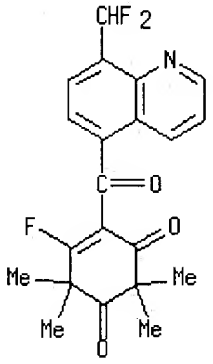
RN 260796-05-2 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



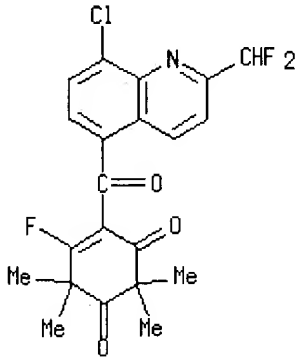
RN 260796-07-4 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl-5-(methylthio)- (9CI) (CA INDEX NAME)



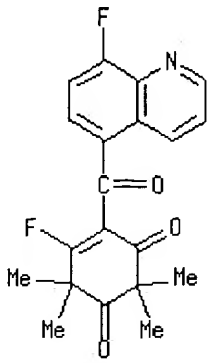
RN 260796-09-6 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[[8-(difluoromethyl)-5-quinolinyl]carbonyl]-5-fluoro-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



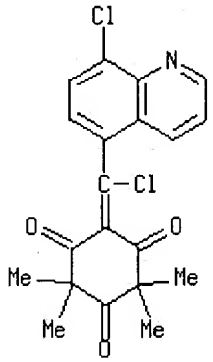
RN 260796-11-0 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 4-[[8-chloro-2-(difluoromethyl)-5-quinolinyl]carbonyl]-5-fluoro-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



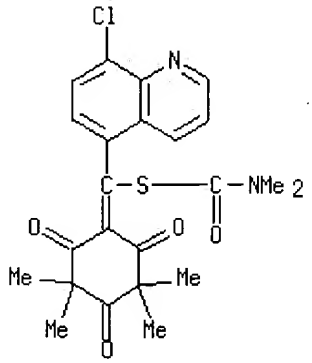
RN 260796-13-2 HCAPLUS
CN 4-Cyclohexene-1,3-dione, 5-fluoro-4-[(8-fluoro-5-quinolinyl)carbonyl]-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



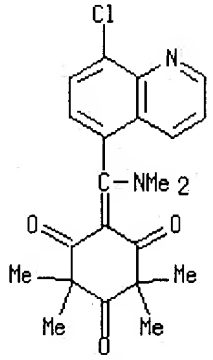
RN 260796-15-4 HCAPLUS
CN 1,3,5-Cyclohexanetrione, 6-[chloro(8-chloro-5-quinolinyl)methylene]-2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



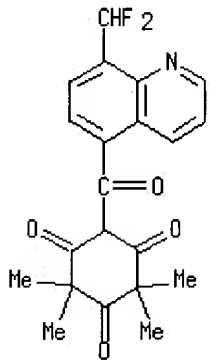
RN 260796-21-2 HCAPLUS
CN Carbamothioic acid, dimethyl-, S-[(8-chloro-5-quinolinyl)(3,3,5,5-tetramethyl-2,4,6-trioxocyclohexylidene)methyl] ester (9CI) (CA INDEX NAME)



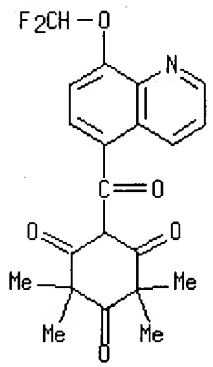
RN 260796-25-6 HCAPLUS
CN 1,3,5-Cyclohexanetrione, 6-[(8-chloro-5-quinolinyl)(dimethylamino)methylene]-2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



IT **260796-36-9P 260796-43-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(prepn. of oxocyclohexenoylquinolines as herbicides)
RN 260796-36-9 HCAPLUS
CN 1,3,5-Cyclohexanetrione, 6-[[8-(difluoromethyl)-5-quinolinyl]carbonyl]-2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



RN 260796-43-8 HCAPLUS
CN 1,3,5-Cyclohexanetrione, 6-[[8-(difluoromethoxy)-5-quinolinyl]carbonyl]-2,2,4,4-tetramethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:197489 HCAPLUS
DOCUMENT NUMBER: 128:243961
TITLE: Preparation of heteroaroylcyclohexanediones as

herbicides

INVENTOR(S): Otten, Martina; Gotz, Norbert; Von Deyn, Wolfgang; Engel, Stefan; Kardorff, Uwe; Plath, Peter; Hill, Regina Luise; Witschel, Matthias; Misslitz, Ulf; Westphalen, Karl-Otto; Walter, Helmut

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany; et al.

SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

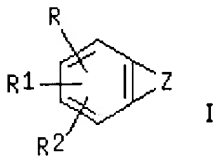
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9812180	A1	19980326	WO 1997-EP4894	19970909
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19638486	A1	19980326	DE 1996-19638486	19960920
AU 9743833	A1	19980414	AU 1997-43833	19970909
AU 736395	B2	20010726		
EP 931070	A1	19990728	EP 1997-941998	19970909
EP 931070	B1	20030319		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, LT, LV				
BR 9711407	A	19990817	BR 1997-11407	19970909
CN 1230951	A	19991006	CN 1997-198078	19970909
NZ 334547	A	20000929	NZ 1997-334547	19970909
JP 2001501924	T2	20010213	JP 1998-514242	19970909
AT 234817	E	20030415	AT 1997-941998	19970909
ZA 9708452	A	19990319	ZA 1997-8452	19970919
US 6479436	B1	20021112	US 1999-254973	19990317

PRIORITY APPLN. INFO.: DE 1996-19638486 A 19960920
WO 1997-EP4894 W 19970909

OTHER SOURCE(S): MARPAT 128:243961

GI



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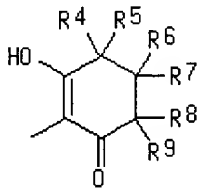

II

AB Title compds. [I; R = COR3; R1,R2 = H, halo, alkyl, alkoxy, etc.; R3 = dioxocyclohexyl group II; R4,R5,R7,R9 = H or alkyl; R6 = H, (un)substituted (cyclo)alkyl, heterocyclyl, etc.; R8 = H, alkyl, alkoxycarbonyl; R6R9 = bond or alkylene; R6R7 = O; Z = substituted (N-oxido) CH:CHCH:N, -CH:CHN:CH, substituted CH:CHCH2NH, -CH:CHNHCH2, etc.] were prepd. as herbicides (no data). Thus, 1,3-cyclohexanedione was O-acylated by 8-bromo-5-quinolinecarboxylic acid (prepn. given) and the product rearranged to give 2-(8-bromo-5-quinolyl)carbonyl-1,3-cyclohexanedione.

IT **205045-89-2P** **205045-90-5P** **205045-91-6P**

205045-92-7P 205045-93-8P 205045-94-9P
205045-95-0P 205045-96-1P 205045-97-2P
205045-98-3P 205045-99-4P 205046-00-0P
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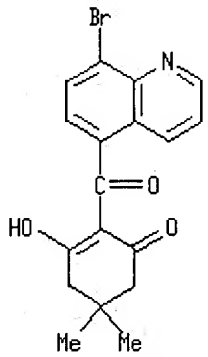
205046-43-1P 205046-44-2P 205046-45-3P
205046-46-4P 205046-47-5P 205046-48-6P
205046-49-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(prepn. of heteroaroylcyclohexanediones as herbicides)

RN 205045-89-2 HCAPLUS
CN 2-Cyclohexen-1-one, 2-[(8-bromo-5-quinolinyl)carbonyl]-3-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)



RN 205045-90-5 HCAPLUS
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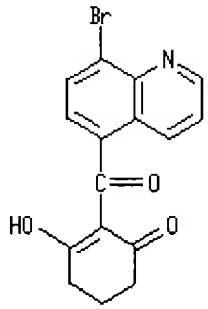
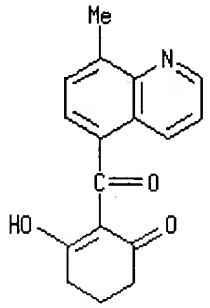
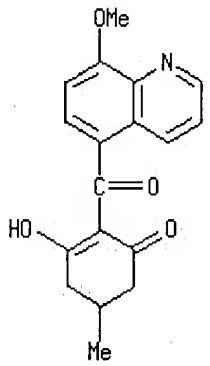


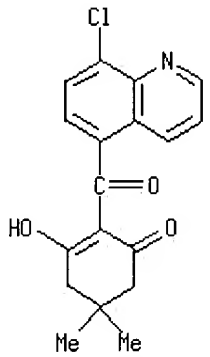
RN 205045-91-6 HCAPLUS
CN 2-Cyclohexen-1-one, 3-hydroxy-2-[(8-methyl-5-quinolinyl)carbonyl]- (9CI) (CA INDEX NAME)



RN 205045-92-7 HCAPLUS
CN 2-Cyclohexen-1-one, 3-hydroxy-2-[(8-methoxy-5-quinolinyl)carbonyl]-5-methyl- (9CI) (CA INDEX NAME)



RN 205045-93-8 HCAPLUS
CN 2-Cyclohexen-1-one, 2-[(8-chloro-5-quinolinyl)carbonyl]-3-hydroxy-5,5-dimethyl- (9CI) (CA INDEX NAME)



RN 205045-94-9 HCAPLUS
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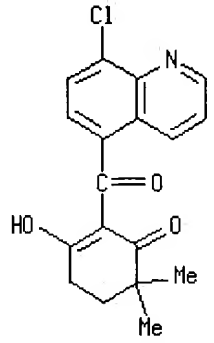
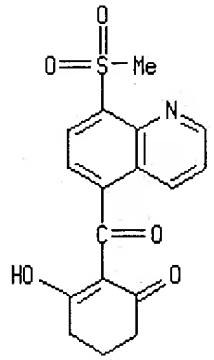
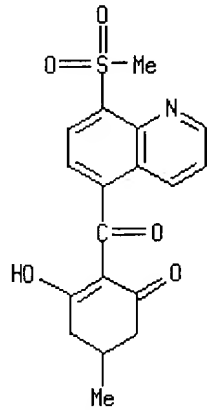


RN 205045-95-0 HCAPLUS
CN 2-Cyclohexen-1-one, 3-hydroxy-2-[[8-(methylsulfonyl)-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 205045-96-1 HCAPLUS
CN 2-Cyclohexen-1-one, 3-hydroxy-5-methyl-2-[[8-(methylsulfonyl)-5-quinolinyl]carbonyl]- (9CI) (CA INDEX NAME)



RN 205045-97-2 HCAPLUS
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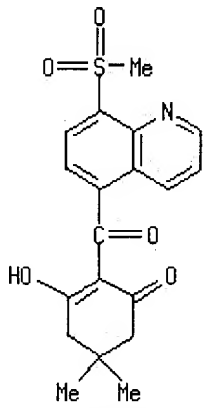

RN 205045-98-3 HCAPLUS
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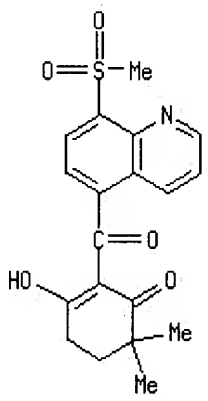

RN 205045-99-4 HCAPLUS
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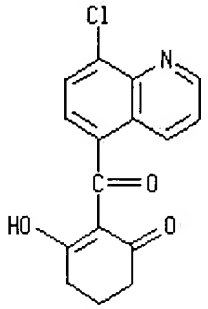

RN 205046-00-0 HCAPLUS
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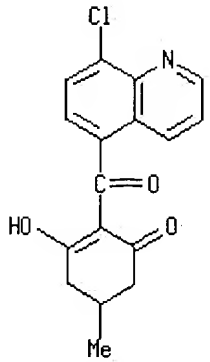

RN 205046-01-1 HCAPLUS
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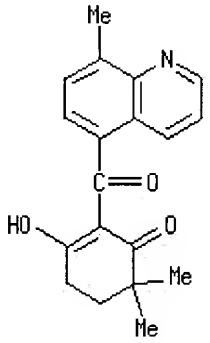

RN 205046-02-2 HCAPLUS
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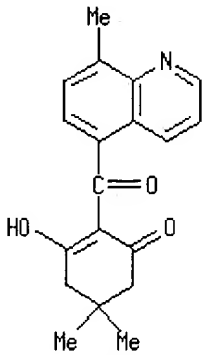

RN 205046-03-3 HCAPLUS
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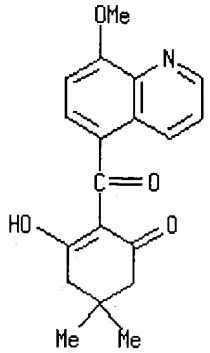

RN 205046-04-4 HCAPLUS
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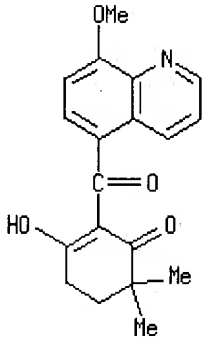

RN 205046-05-5 HCAPLUS
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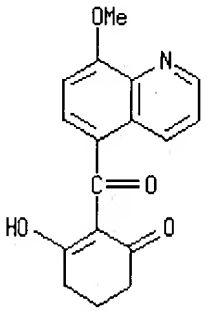

RN 205046-06-6 HCAPLUS
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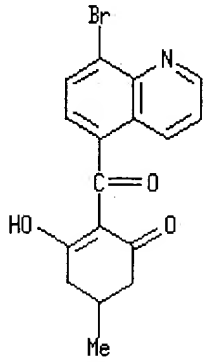

RN 205046-07-7 HCAPLUS
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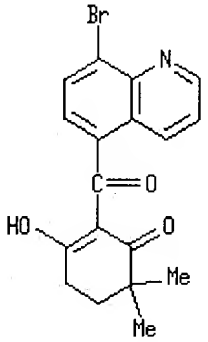

RN 205046-08-8 HCAPLUS
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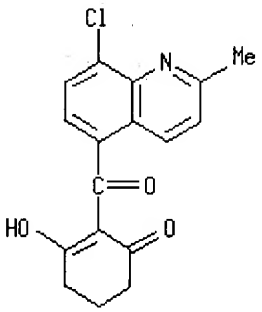

RN 205046-09-9 HCAPLUS
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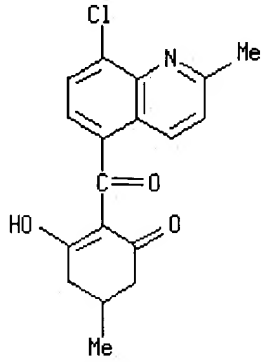

RN 205046-10-2 HCAPLUS
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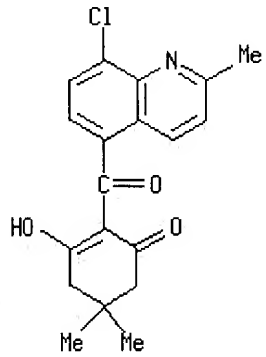

RN 205046-11-3 HCAPLUS
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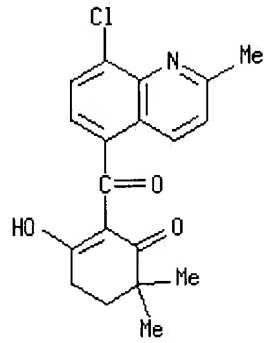

RN 205046-12-4 HCAPLUS
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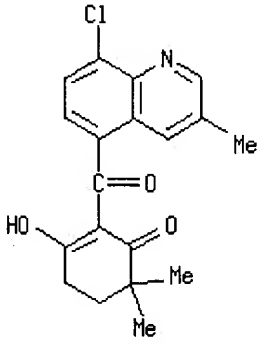

RN 205046-13-5 HCAPLUS
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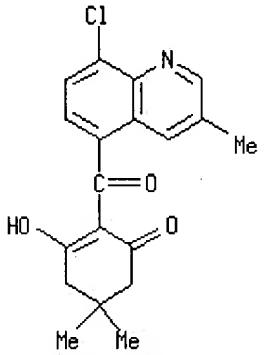

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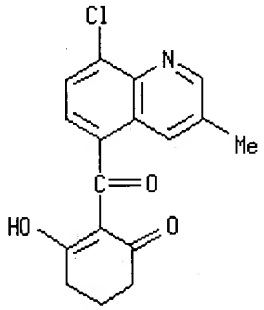

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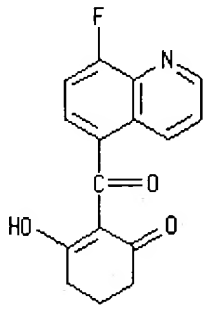

RN 205046-16-8 HCAPLUS
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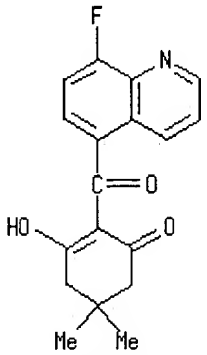

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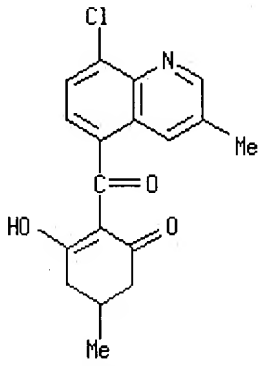

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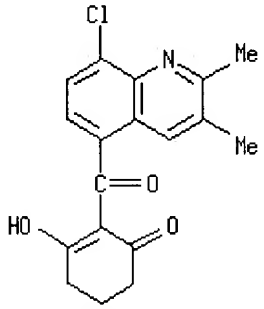

RN 205046-19-1 HCAPLUS
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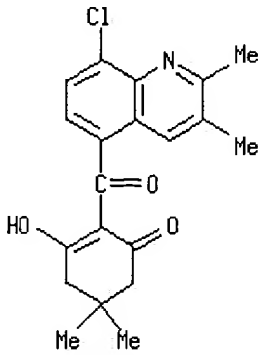

RN 205046-38-4 HCAPLUS
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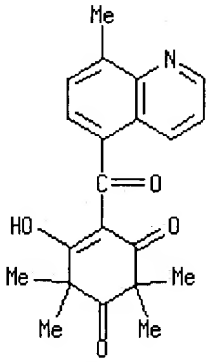

RN 205046-39-5 HCAPLUS
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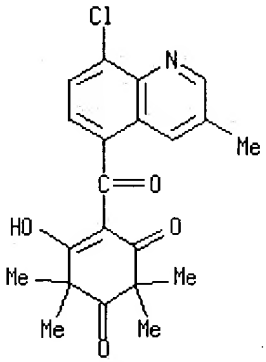

RN 205046-40-8 HCAPLUS
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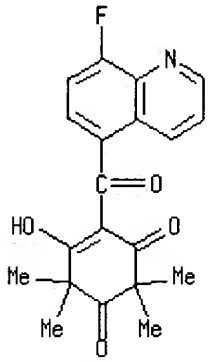

RN 205046-41-9 HCAPLUS
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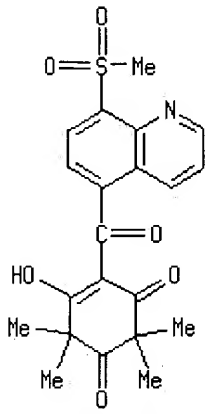

RN 205046-42-0 HCAPLUS
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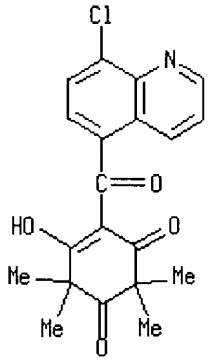

RN 205046-43-1 HCAPLUS
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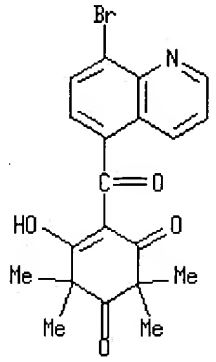

RN 205046-44-2 HCAPLUS
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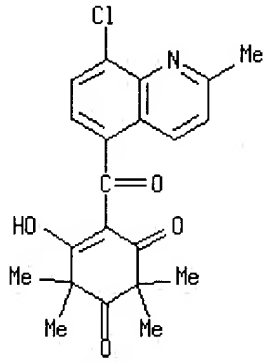

RN 205046-45-3 HCAPLUS
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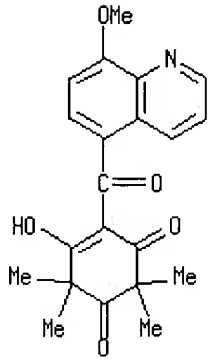

RN 205046-46-4 HCAPLUS
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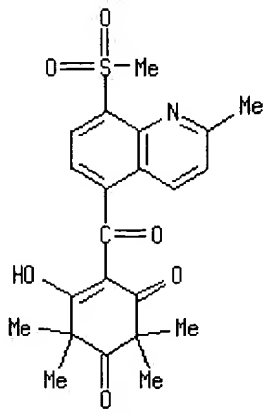

RN 205046-47-5 HCAPLUS
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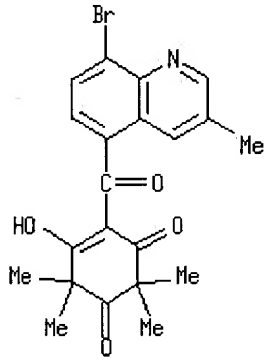

RN 205046-48-6 HCAPLUS
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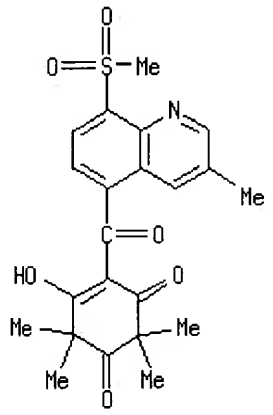

RN 205046-49-7 HCAPLUS
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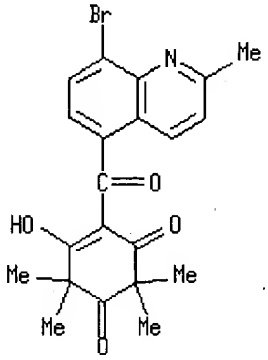

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=> **file beilstein**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE RELOADED ON OCTOBER 20, 2002
FILE LAST UPDATED ON MARCH 30,2004

FILE COVERS 1771 TO 2003.
FILE CONTAINS 8,932,479 SUBSTANCES

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.
Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.                          *
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************************************************************************

=> d his

     (FILE 'HOME' ENTERED AT 20:21:22 ON 07 APR 2004)

     FILE 'REGISTRY' ENTERED AT 20:21:28 ON 07 APR 2004
L1              STRUCTURE UPLOADED
L2            5 S L1
L3          106 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 20:24:01 ON 07 APR 2004
L4            2 S L3

     FILE 'CAOLD' ENTERED AT 20:24:36 ON 07 APR 2004
L5            0 S L3

     FILE 'HCAPLUS' ENTERED AT 20:24:47 ON 07 APR 2004
L6            2 S L3/PREP

     FILE 'BEILSTEIN' ENTERED AT 20:25:25 ON 07 APR 2004

=> s l3
L7            0 L3

=> file uspatfull
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.18     183.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -2.78

FILE 'USPATFULL' ENTERED AT 20:25:45 ON 07 APR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 6 Apr 2004 (20040406/PD)
FILE LAST UPDATED: 6 Apr 2004 (20040406/ED)
HIGHEST GRANTED PATENT NUMBER: US6718553
HIGHEST APPLICATION PUBLICATION NUMBER: US2004064864
CA INDEXING IS CURRENT THROUGH 6 Apr 2004 (20040406/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 6 Apr 2004 (20040406/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2004

>>>  USPAT2 is now available.  USPATFULL contains full text of the     <<<
>>>  original, i.e., the earliest published granted patents or         <<<
>>>  applications.  USPAT2 contains full text of the latest US         <<<
>>>  publications, starting in 2001, for the inventions covered in     <<<
>>>  USPATFULL.  A USPATFULL record contains not only the original     <<<
>>>  published document but also a list of any subsequent              <<<
>>>  publications.  The publication number, patent kind code, and      <<<
>>>  publication date for all the US publications for an invention     <<<
>>>  are displayed in the PI (Patent Information) field of USPATFULL   <<<
>>>  records and may be searched in standard search fields, e.g., /PN, <<<
>>>  /PK, etc.                                                         <<<
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>>>  USPATFULL and USPAT2 can be accessed and searched together          <<<
>>>  through the new cluster USPATALL.  Type FILE USPATALL to           <<<
>>>  enter this cluster.                                                 <<<
>>>                                                                      <<<
>>>  Use USPATALL when searching terms such as patent assignees,        <<<
>>>  classifications, or claims, that may potentially change from       <<<
>>>  the earliest to the latest publication.                             <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l3
L8            1 L3

=> d l8, ibib abs fhitstr, 1

L8   ANSWER 1 OF 1  USPATFULL on STN
```

Full Text | Citing References

ACCESSION NUMBER: 2002:297546 USPATFULL

TITLE: Hetaroyl cyclohexanedione derivatives with herbicidal effect

INVENTOR(S): Otten, Martina, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
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PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6479436	B1	20021112	
	WO 9812180		19980326	
APPLICATION INFO.:	US 1999-254973		19990317	(9)
	WO 1997-EP4894		19970909	
			19990317	PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1996-19638486	19960920

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Huang, Evelyn Mei
LEGAL REPRESENTATIVE: Keil & Weinkauf
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1918